



215110.ST25.txt
SEQUENCE LISTING

<110> Feussner, Ivo
Hornung, Ellen
Rosahl, Sabine

<120> 11-ARACHIDONATE-LIPOXYGENASE MUTANTS

<130> 215110

<140> US 10/030,464

<141> 2002-05-22

<150> PCT/EP00/06539

<151> 2000-07-10

<150> DE 199 31 819.0

<151> 1999-07-08

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<170> PatentIn version 3.3

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Lys Gly Thr Val Val Met Met Lys Lys Asn Ala Leu Asp Phe Thr Asp
20 25 30

Leu Ala Gly Ser Leu Thr Asp Lys Ile Phe Glu Ala Leu Gly Gln Lys
35 40 45

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Val Ser Phe Gln Leu Ile Ser Ser Val Gln Ser Asp Pro Ala Asn Gly
 50 55 60
 Leu Gln Gly Lys His Ser Asn Pro Ala Tyr Leu Glu Asn Phe Leu Phe
 65 70 75 80
 Thr Leu Thr Pro Leu Ala Ala Gly Glu Thr Ala Phe Gly Val Thr Phe
 85 90 95
 Asp Trp Asn Glu Glu Phe Gly Val Pro Gly Ala Phe Ile Ile Lys Asn
 100 105 110
 Thr His Ile Asn Glu Phe Phe Leu Lys Ser Leu Thr Leu Glu Asp Val
 115 120 125
 Pro Asn His Gly Lys Val His Phe Val Cys Asn Ser Trp Val Tyr Pro
 130 135 140
 Ser Phe Arg Tyr Lys Ser Asp Arg Ile Phe Phe Ala Asn Gln Pro Tyr
 145 150 155 160
 Leu Pro Ser Glu Thr Pro Glu Leu Leu Arg Lys Tyr Arg Glu Asn Glu
 165 170 175
 Leu Leu Thr Leu Arg Gly Asp Gly Thr Gly Lys Arg Glu Ala Trp Asp
 180 185 190
 Arg Ile Tyr Asp Tyr Asp Val Tyr Asn Asp Leu Gly Asn Pro Asp Gln
 195 200 205
 Gly Glu Gln Asn Val Arg Thr Thr Leu Gly Gly Ser Ala Asp Tyr Pro
 210 215 220
 Tyr Pro Arg Arg Gly Arg Thr Gly Arg Pro Pro Thr Arg Thr Asp Pro
 225 230 235 240
 Lys Ser Glu Ser Arg Ile Pro Leu Ile Leu Ser Leu Asp Ile Tyr Val
 245 250 255
 Pro Arg Asp Glu Arg Phe Gly His Leu Lys Met Ser Asp Phe Leu Thr
 260 265 270
 Tyr Ala Leu Lys Ser Ile Val Gln Phe Ile Leu Pro Glu Leu His Ala
 275 280 285
 Leu Phe Asp Gly Thr Pro Asn Glu Phe Asp Ser Phe Glu Asp Val Leu
 290 295 300
 Arg Leu Tyr Glu Gly Gly Ile Lys Leu Pro Gln Gly Pro Leu Phe Lys
 305 310 315 320

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Ala Leu Thr Ala Ala Ile Pro Leu Glu Met Met Lys Glu Leu Leu Arg
 325 330 335
 Thr Asp Gly Glu Gly Ile Leu Arg Phe Pro Thr Pro Leu Val Ile Lys
 340 345 350
 Asp Ser Lys Thr Ala Trp Arg Thr Asp Glu Glu Phe Ala Arg Glu Met
 355 360 365
 Leu Ala Gly Val Asn Pro Ile Ile Ile Ser Arg Leu Gln Glu Phe Pro
 370 375 380
 Pro Lys Ser Lys Leu Asp Pro Glu Ala Tyr Gly Asn Gln Asn Ser Thr
 385 390 395 400
 Ile Thr Ala Glu His Ile Glu Asp Lys Leu Asp Gly Leu Thr Val Asp
 405 410 415
 Glu Ala Met Asn Asn Asn Lys Leu Phe Ile Leu Asn His His Asp Val
 420 425 430
 Leu Ile Pro Tyr Leu Arg Arg Ile Asn Thr Thr Thr Thr Lys Thr Tyr
 435 440 445
 Ala Ser Arg Thr Leu Leu Phe Leu Gln Asp Asn Gly Ser Leu Lys Pro
 450 455 460
 Leu Ala Ile Glu Leu Ser Leu Pro His Pro Asp Gly Asp Gln Phe Gly
 465 470 475 480
 Val Ile Ser Lys Val Tyr Thr Pro Ser Asp Gln Gly Val Glu Ser Ser
 485 490 495
 Ile Trp Gln Leu Ala Lys Ala Tyr Val Ala Val Asn Asp Ser Gly Val
 500 505 510
 His Gln Leu Ile Ser His Trp Leu Asn Thr His Ala Val Ile Glu Pro
 515 520 525
 Phe Val Ile Ala Thr Asn Arg Gln Leu Ser Val Leu His Pro Ile His
 530 535 540
 Lys Leu Leu Tyr Pro His Phe Arg Asp Thr Met Asn Ile Asn Ala Met
 545 550 555 560
 Ala Arg Gln Ile Leu Ile Asn Ala Gly Gly Val Leu Glu Ser Thr Val
 565 570 575
 Phe Pro Ser Lys Phe Ala Met Glu Met Ser Ala Val Val Tyr Lys Asp
 580 585 590

Trp Val Phe Pro Asp Gln Ala Leu Pro Ala Asp Leu Val Lys Arg Gly
 595 600 605
 Val Ala Val Glu Asp Ser Ser Ser Pro His Gly Val Arg Leu Leu Ile
 610 615 620
 Glu Asp Tyr Pro Tyr Ala Val Asp Gly Leu Glu Ile Trp Ser Ala Ile
 625 630 635 640
 Lys Ser Trp Val Thr Asp Tyr Cys Ser Phe Tyr Tyr Gly Ser Asp Glu
 645 650 655
 Glu Ile Leu Lys Asp Asn Glu Leu Gln Ala Trp Trp Lys Glu Leu Arg
 660 665 670
 Glu Val Gly His Gly Asp Lys Lys Asn Glu Pro Trp Trp Pro Glu Met
 675 680 685
 Glu Thr Pro Gln Glu Leu Ile Asp Ser Cys Thr Thr Ile Ile Trp Ile
 690 695 700
 Ala Ser Ala Leu His Ala Ala Val Asn Phe Gly Gln Tyr Pro Tyr Ala
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 Gly Tyr Leu Pro Asn Arg Pro Thr Val Ser Arg Arg Phe Met Pro Glu
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 Pro Gly Thr Pro Glu Tyr Glu Glu Leu Lys Lys Asn Pro Asp Lys Ala
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 Phe Leu Lys Thr Ile Thr Ala Gln Leu Gln Thr Leu Leu Gly Val Ser
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 Leu Ile Glu Ile Leu Ser Arg His Thr Thr Asp Glu Ile Tyr Leu Gly
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 Gln Arg Glu Ser Pro Glu Trp Thr Lys Asp Lys Glu Pro Leu Ala Ala
 785 790 795 800
 Phe Asp Lys Phe Gly Lys Lys Leu Thr Asp Ile Glu Lys Gln Ile Ile
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 Gln Arg Asn Gly Asp Asn Ile Leu Thr Asn Arg Ser Gly Pro Val Asn
 820 825 830
 Ala Pro Tyr Thr Leu Leu Phe Pro Thr Ser Glu Gly Gly Leu Thr Gly
 835 840 845
 Lys Gly Ile Pro Asn Ser Val Ser Ile
 850 855